



Town of Arlington, MA

Massachusetts Avenue/ Pleasant Street/ Mystic Street: Improving Mobility

Public Information Meeting

November 6, 2013

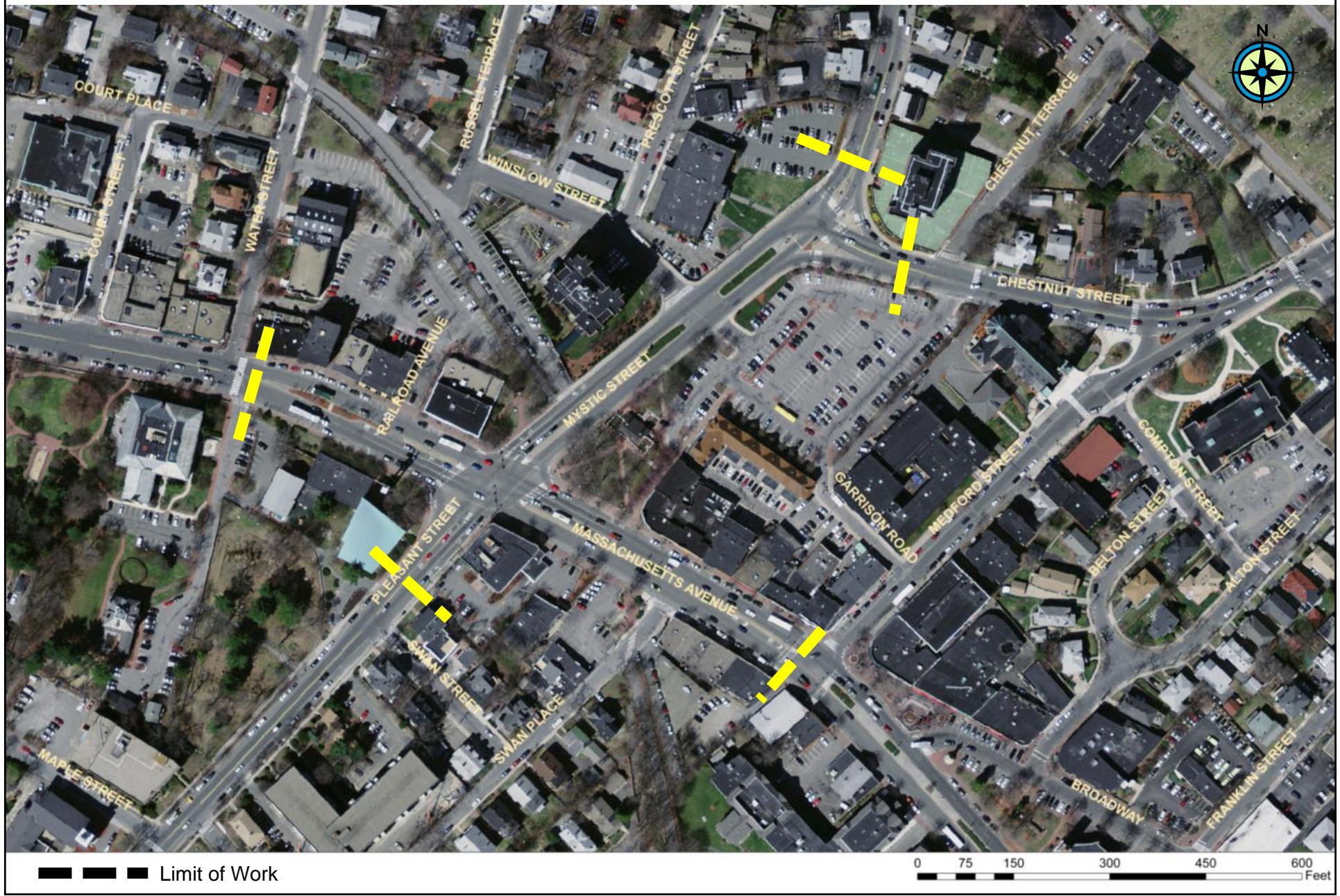


Howard/Stein-Hudson Associates, Inc.

CREATIVE SOLUTIONS • EFFECTIVE PARTNERING ®



Project Area





Goals and Objectives

- Improve pedestrian safety
- Improve bicycle safety and mobility
- Improve automobile mobility



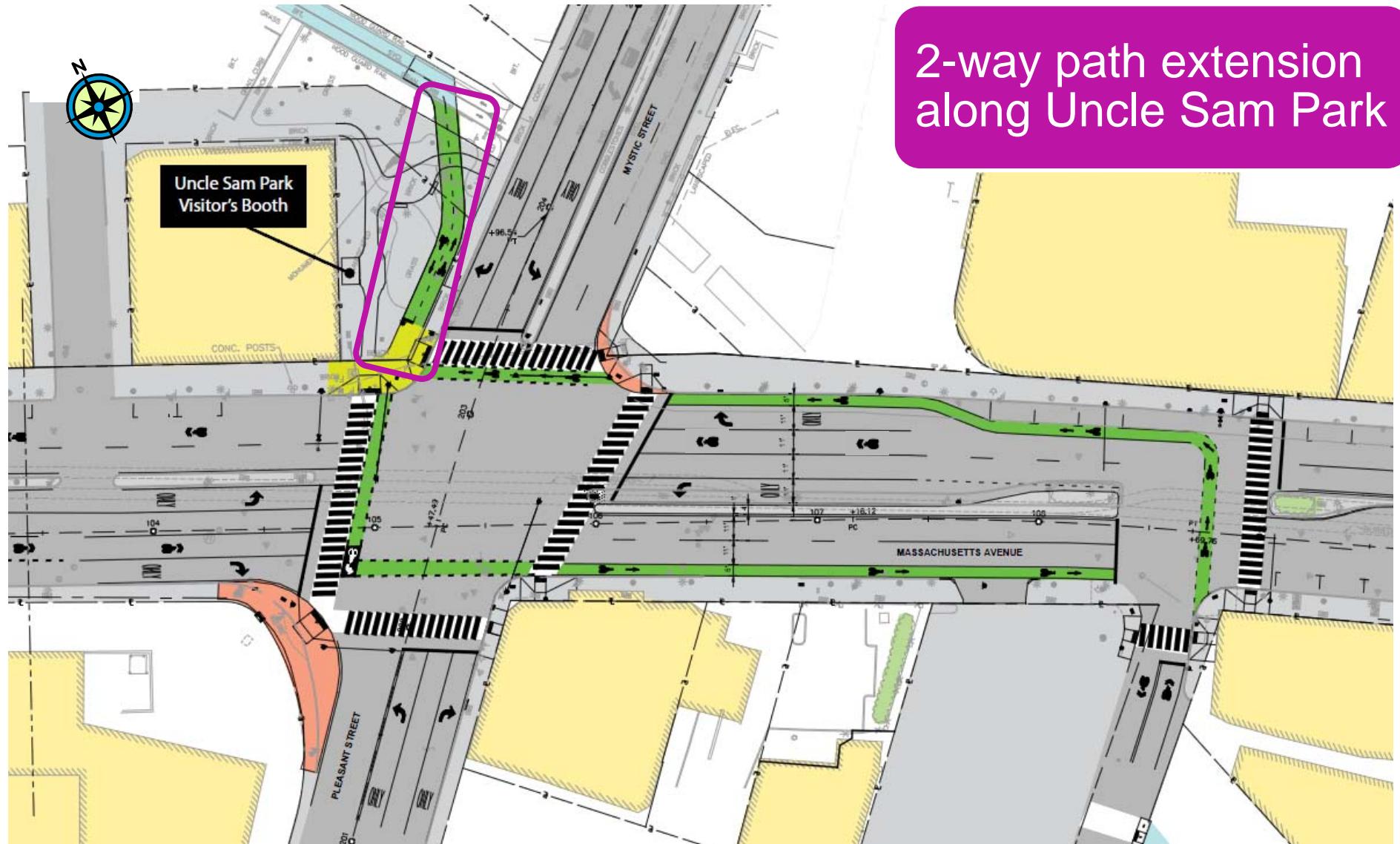


Concerns Heard - Public Hearing – April 2013

- Width of roadway elements
- Length of time for seniors to cross intersection (2.8 ft/sec, USDOT/FHWA guidance)
- Pedestrian and bike queuing/storage on the northwest corner
- Is a diagonal crossing possible?
- Path definition for Minuteman Bikeway through the Massachusetts Avenue/Pleasant Street/Mystic Street intersection



Proposed Improvements





Proposed Improvements – Northeast Corner





Bike Signals



New York City
Photo: Kyle Gradinger



Washington, DC
Photo: DDOT



Source: Peter Koonce, Portland



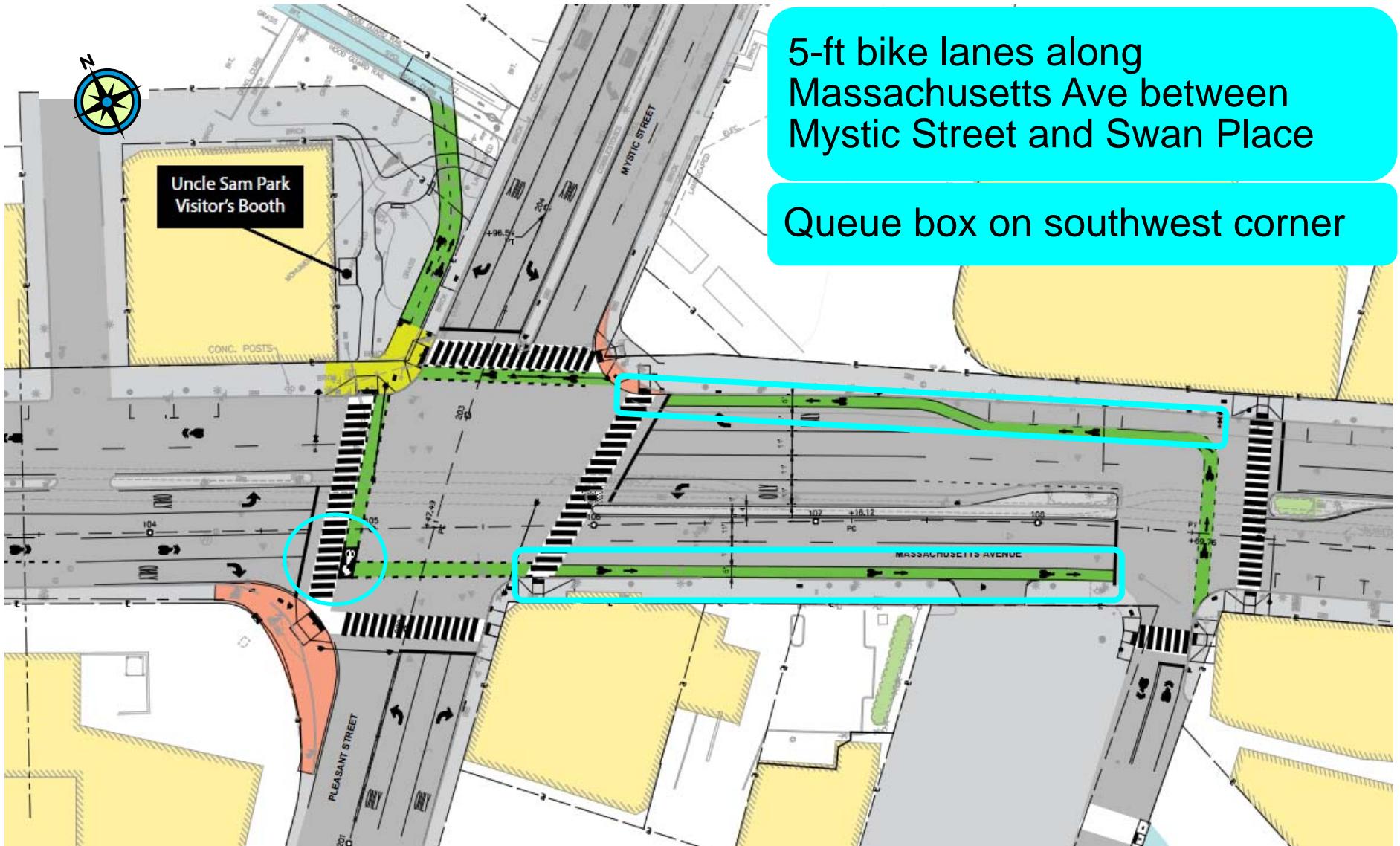


View of Path Extension along Mystic Street



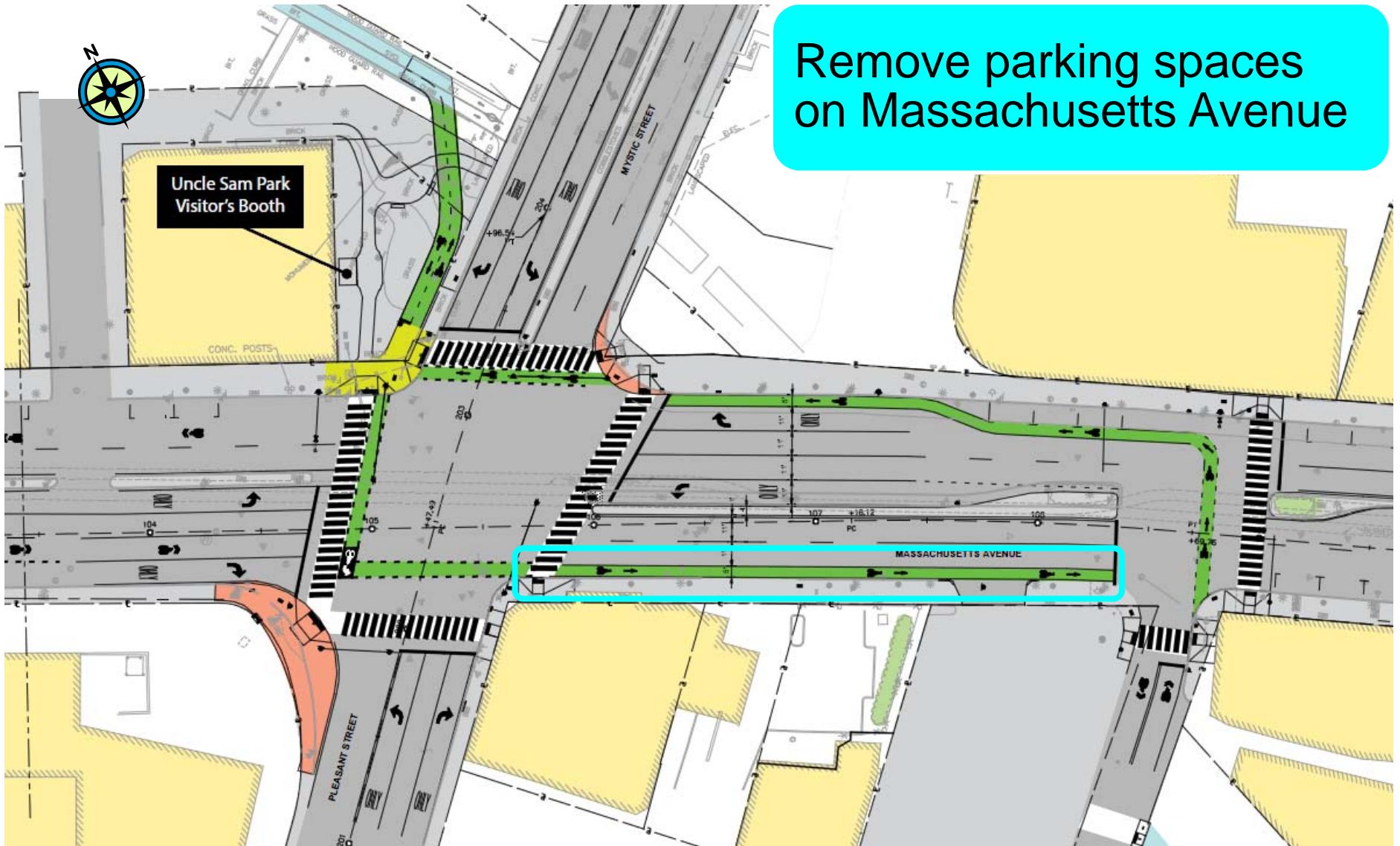


Proposed Improvements





Proposed Improvements





Proposed Conditions - Massachusetts Avenue

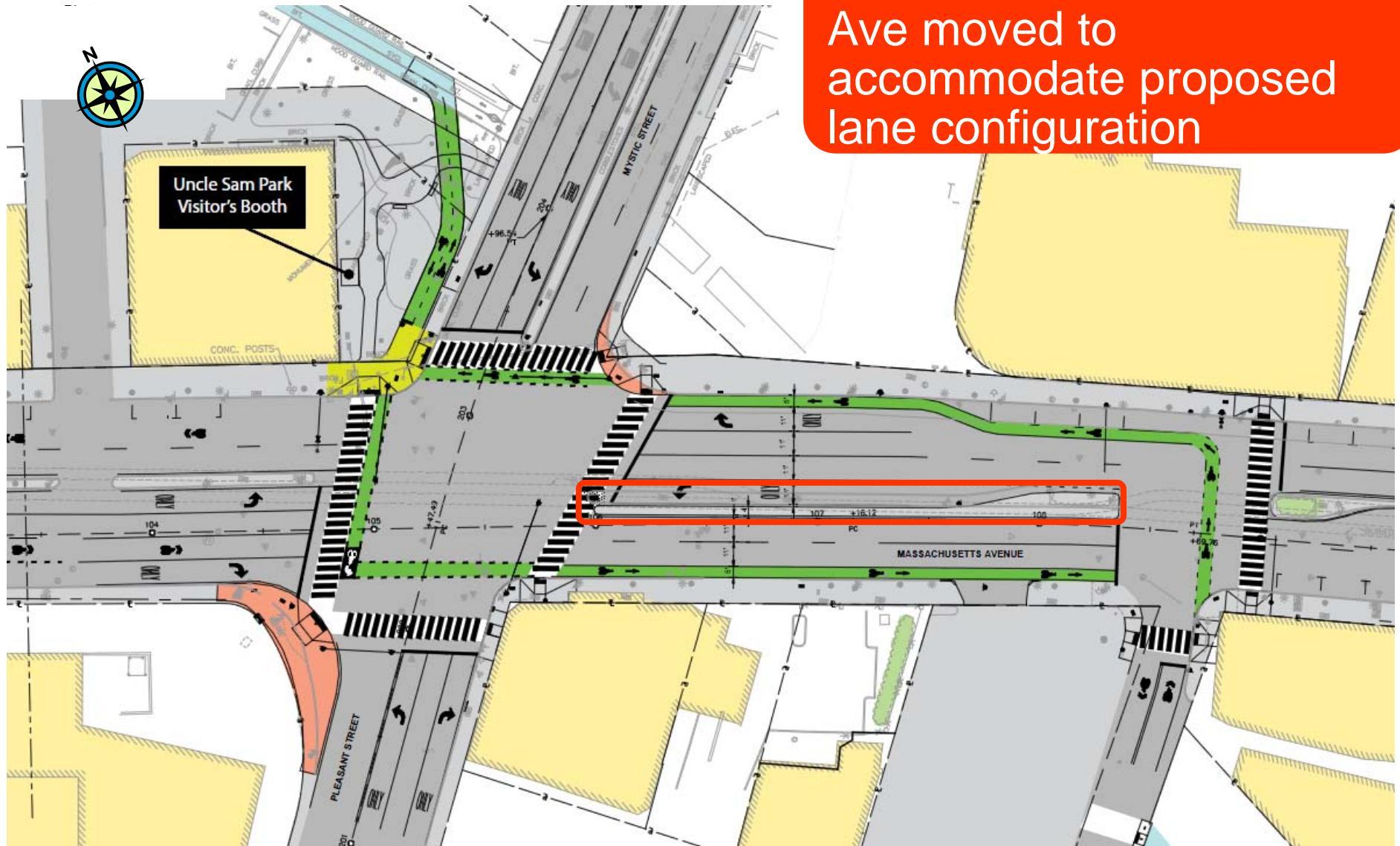


On Massachusetts Avenue looking west



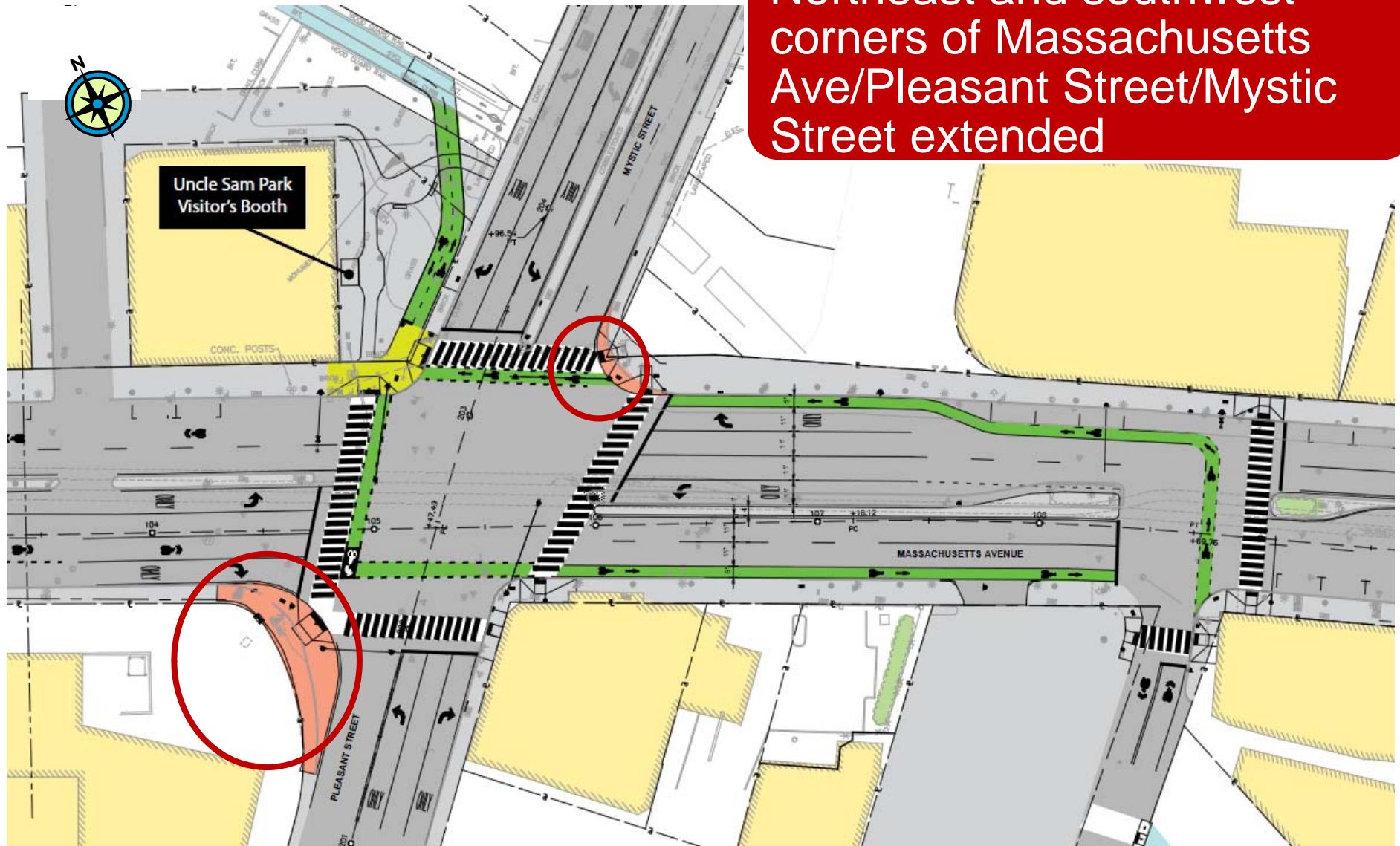
Proposed Improvements

Median on Massachusetts Ave moved to accommodate proposed lane configuration





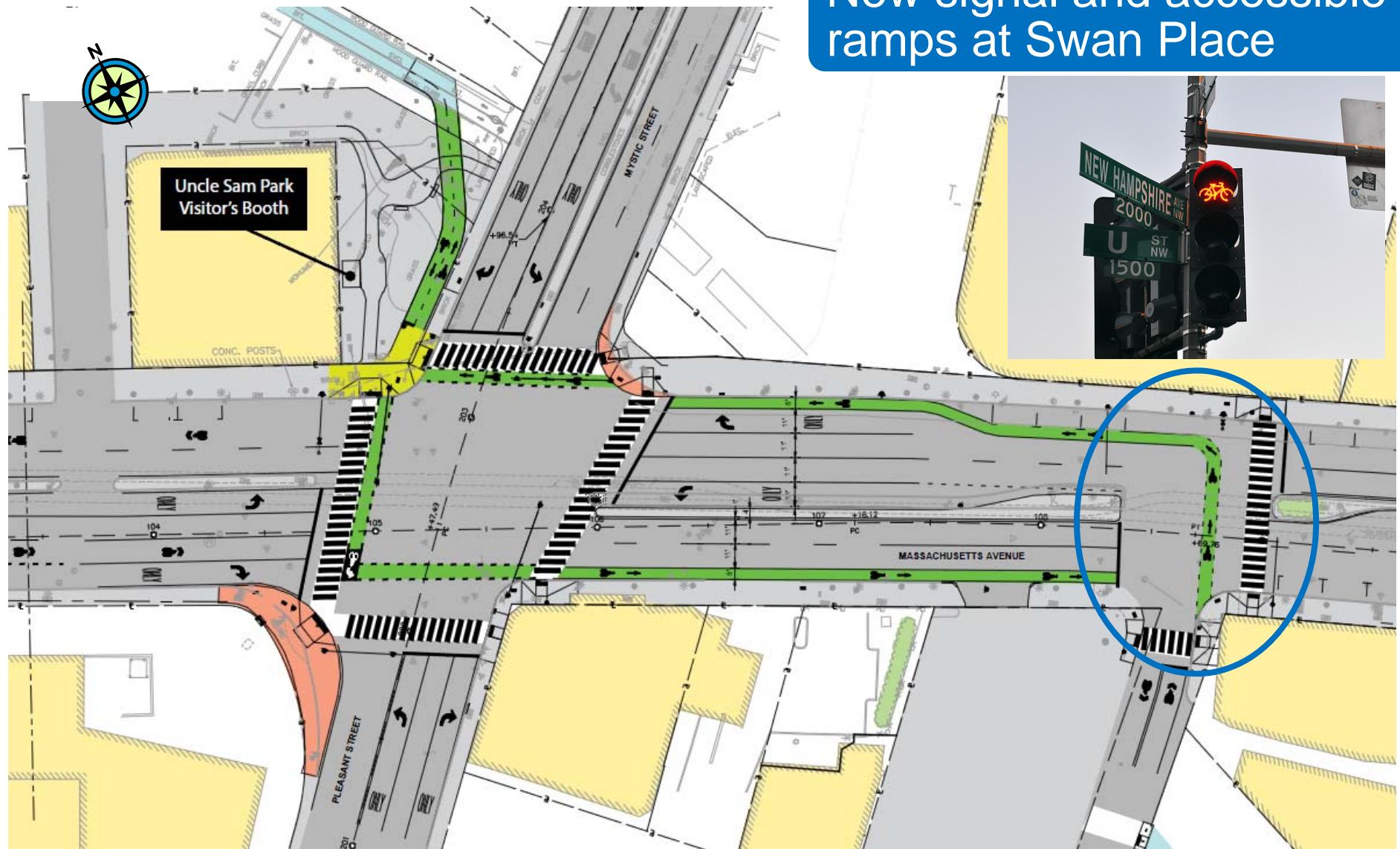
Proposed Improvements





Proposed Improvements

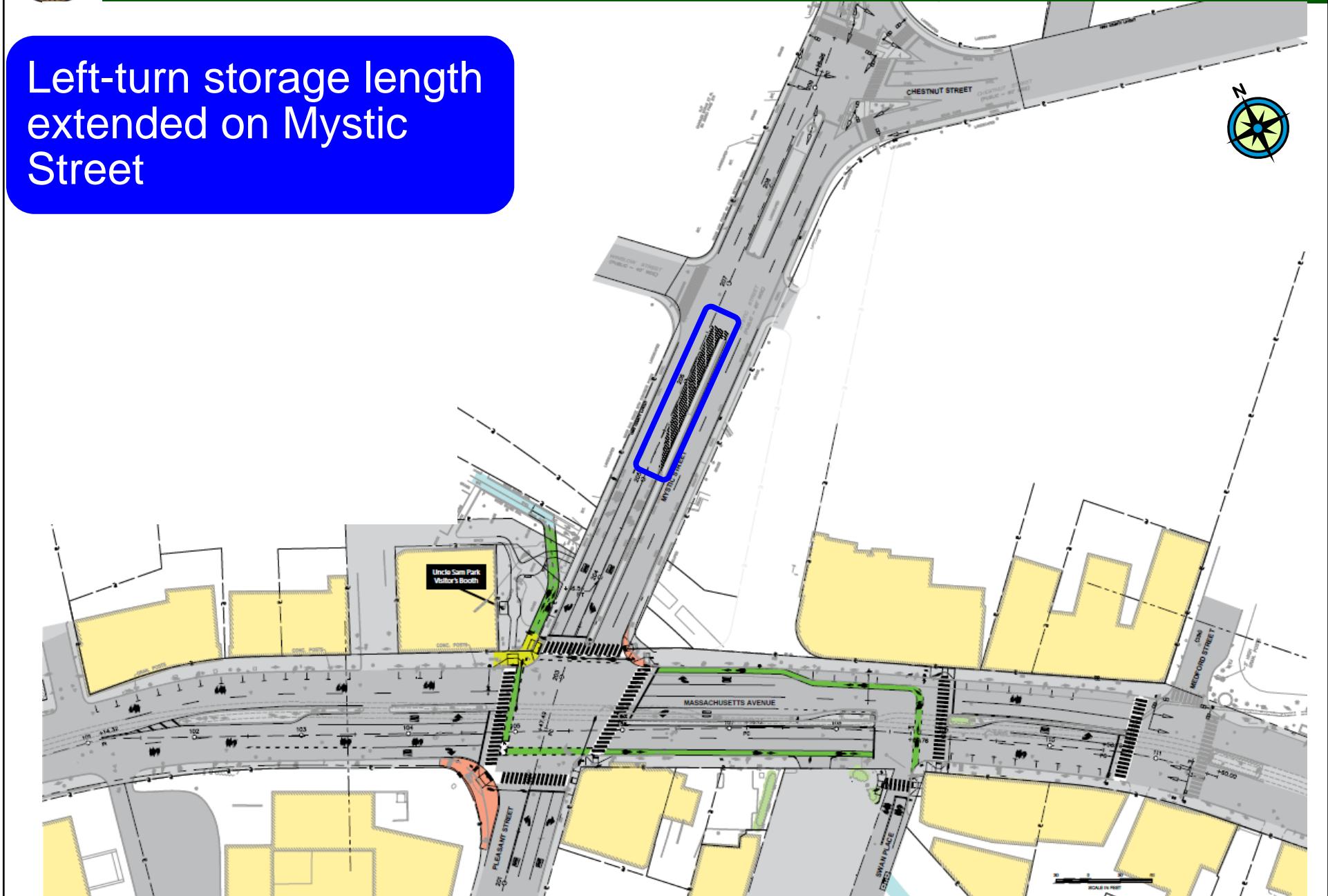
New signal and accessible ramps at Swan Place





Proposed Improvements

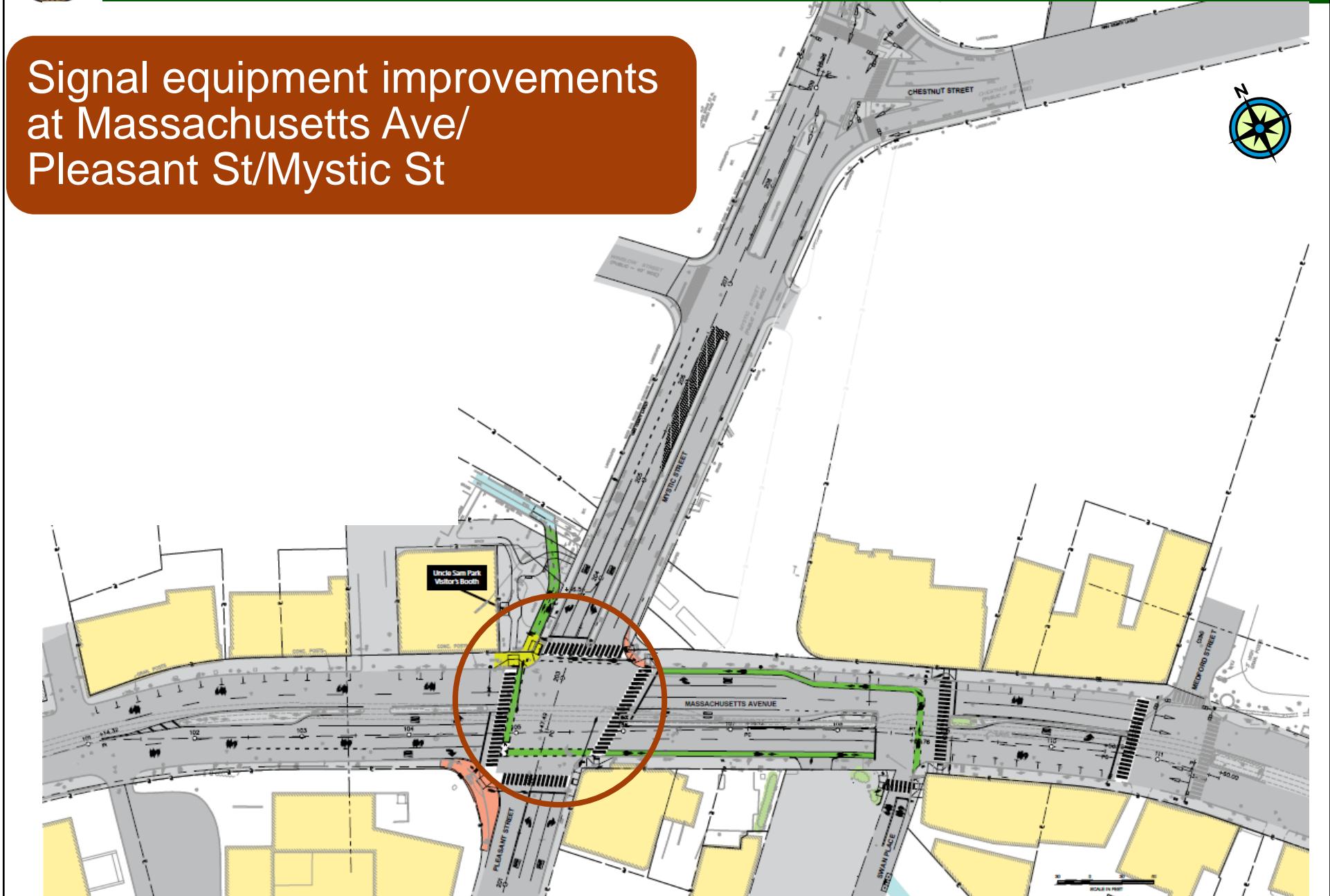
Left-turn storage length extended on Mystic Street





Proposed Improvements

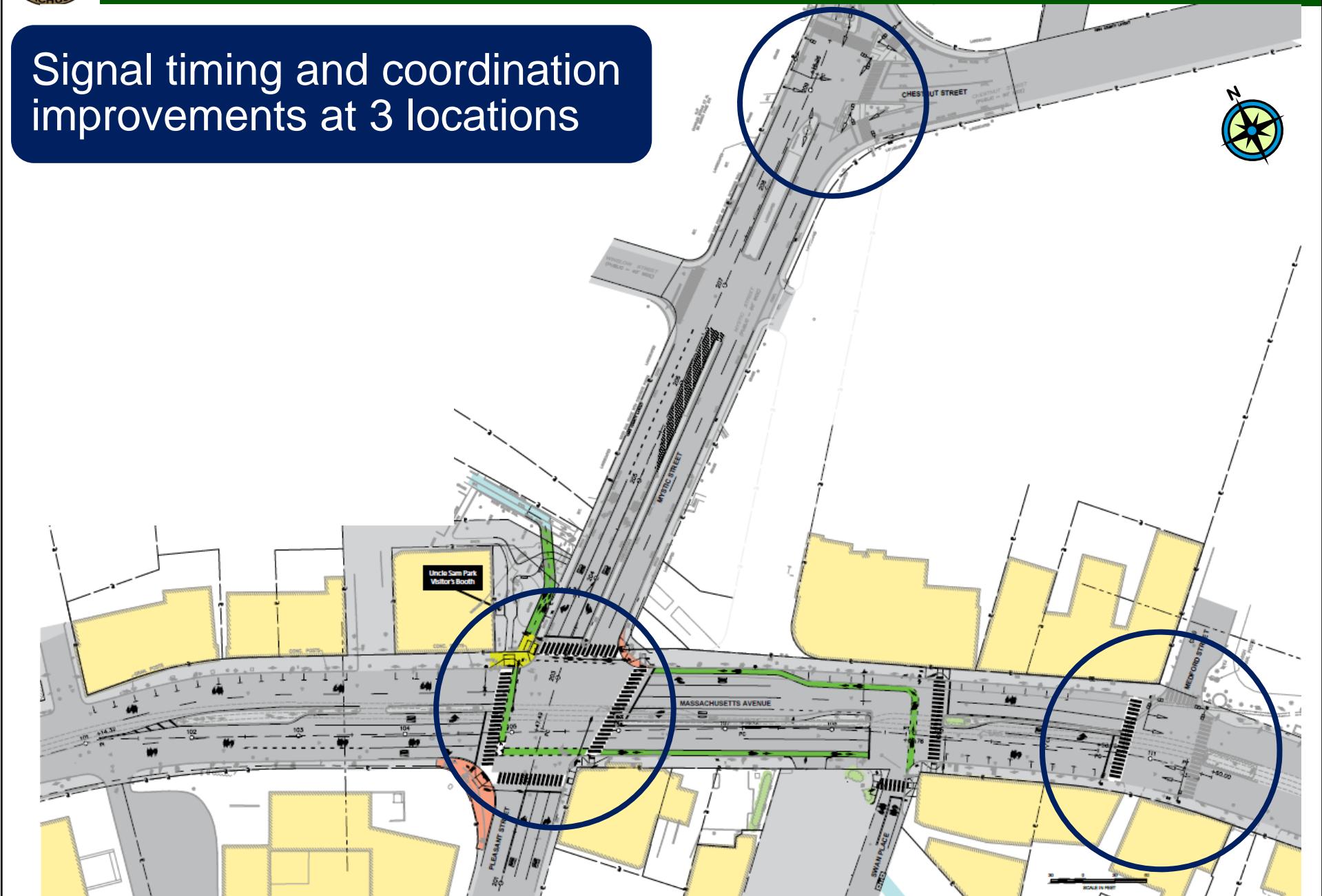
Signal equipment improvements
at Massachusetts Ave/
Pleasant St/Mystic St





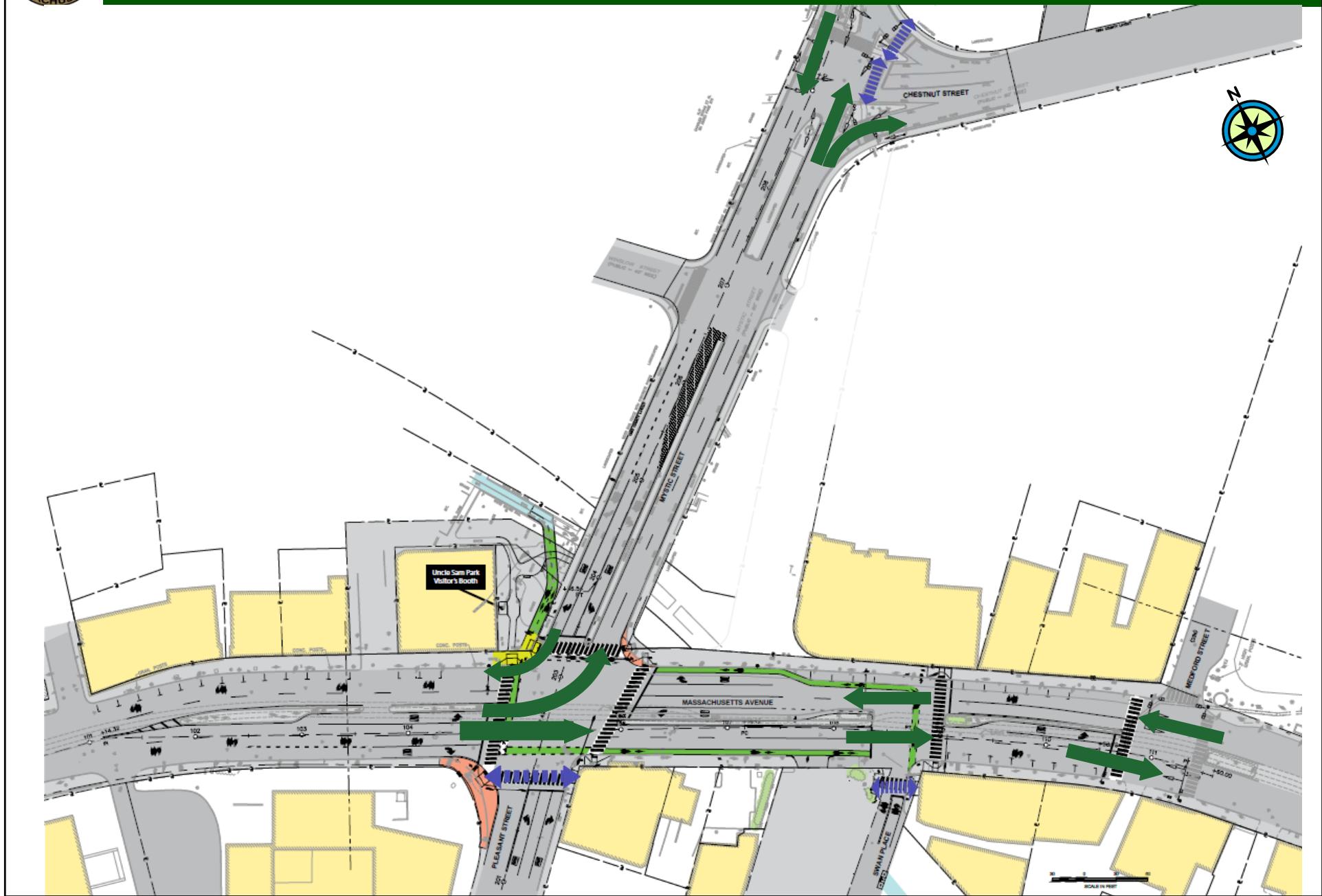
Proposed Improvements

Signal timing and coordination improvements at 3 locations



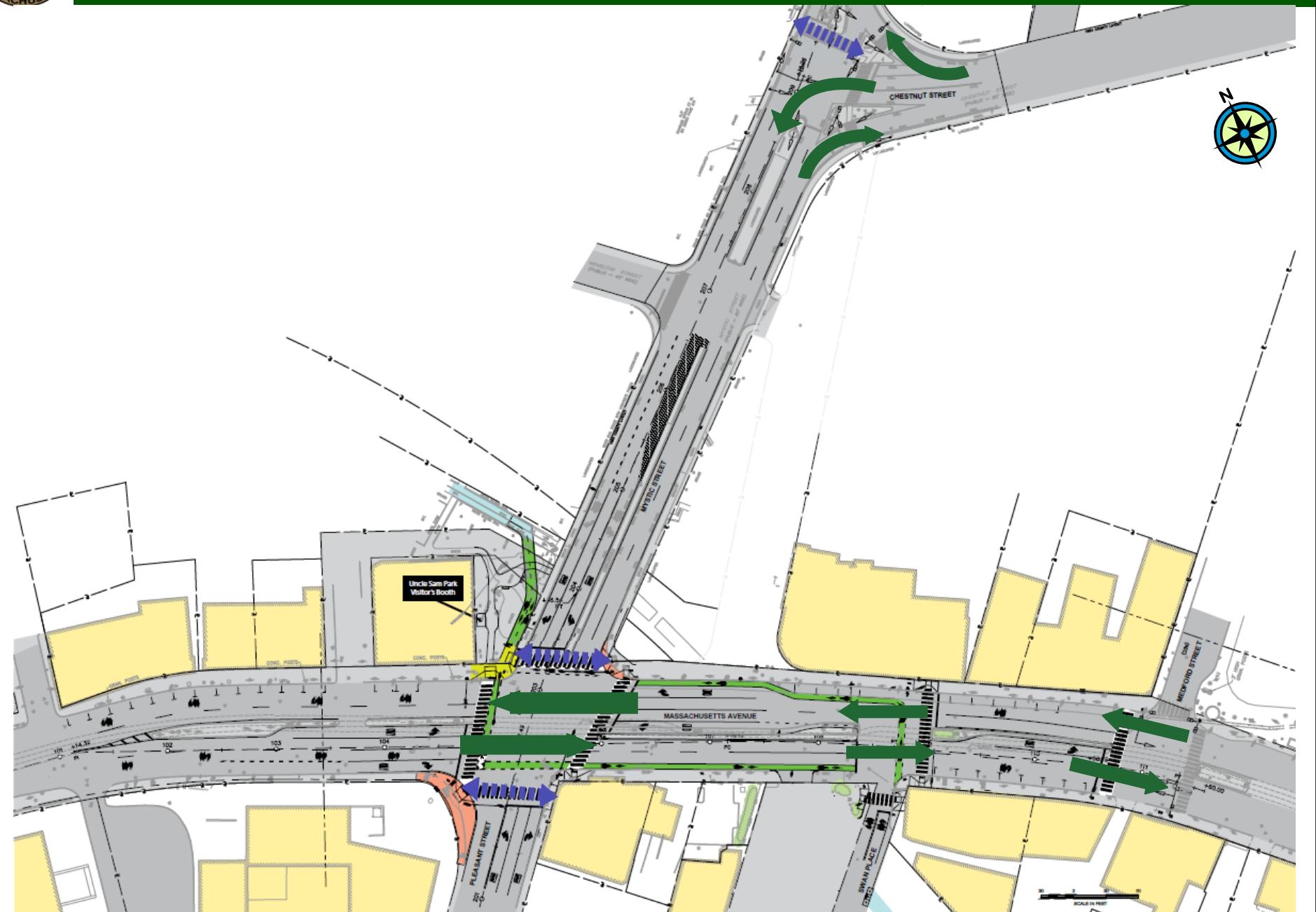


Proposed Traffic Signal Coordination



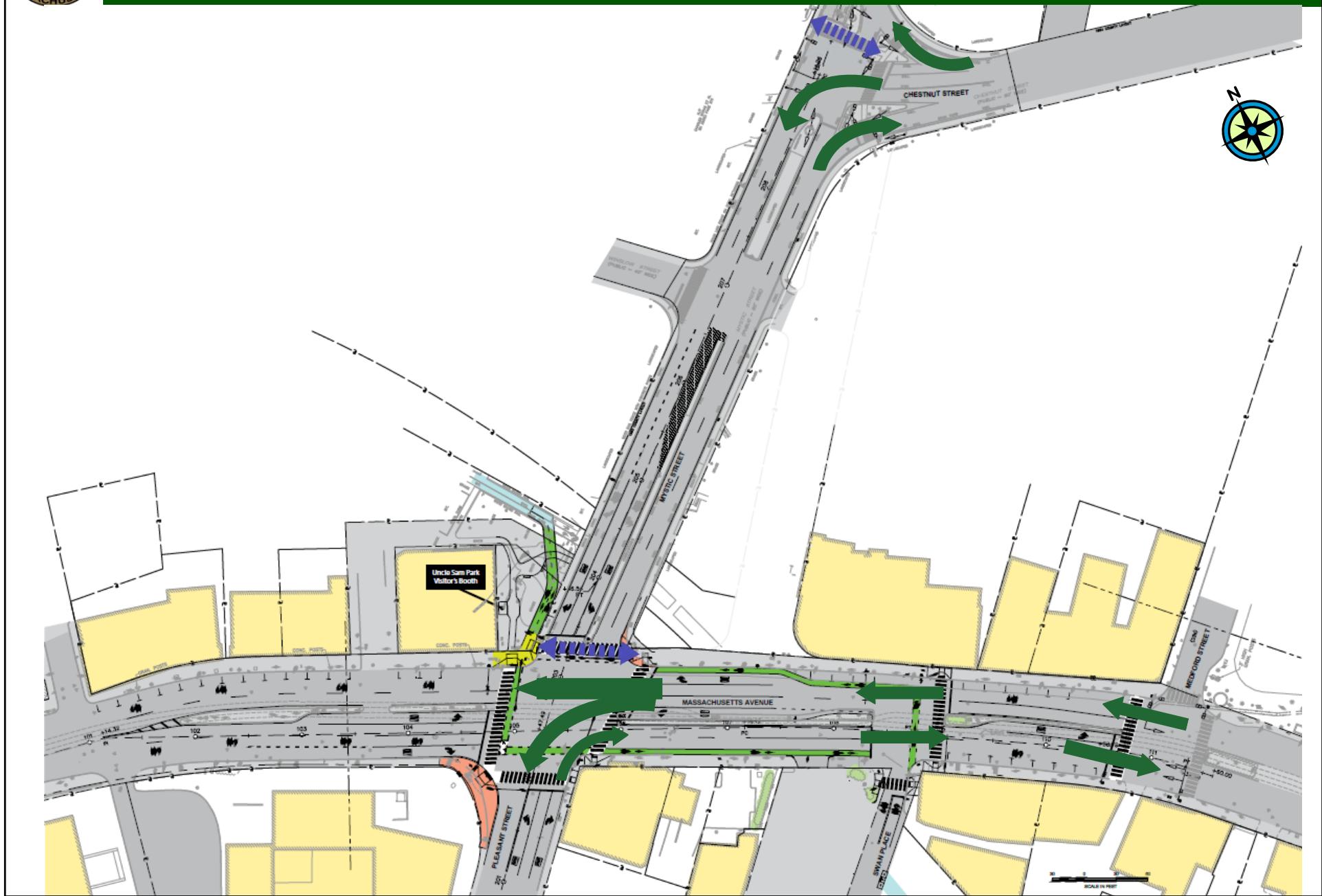


Proposed Traffic Signal Coordination



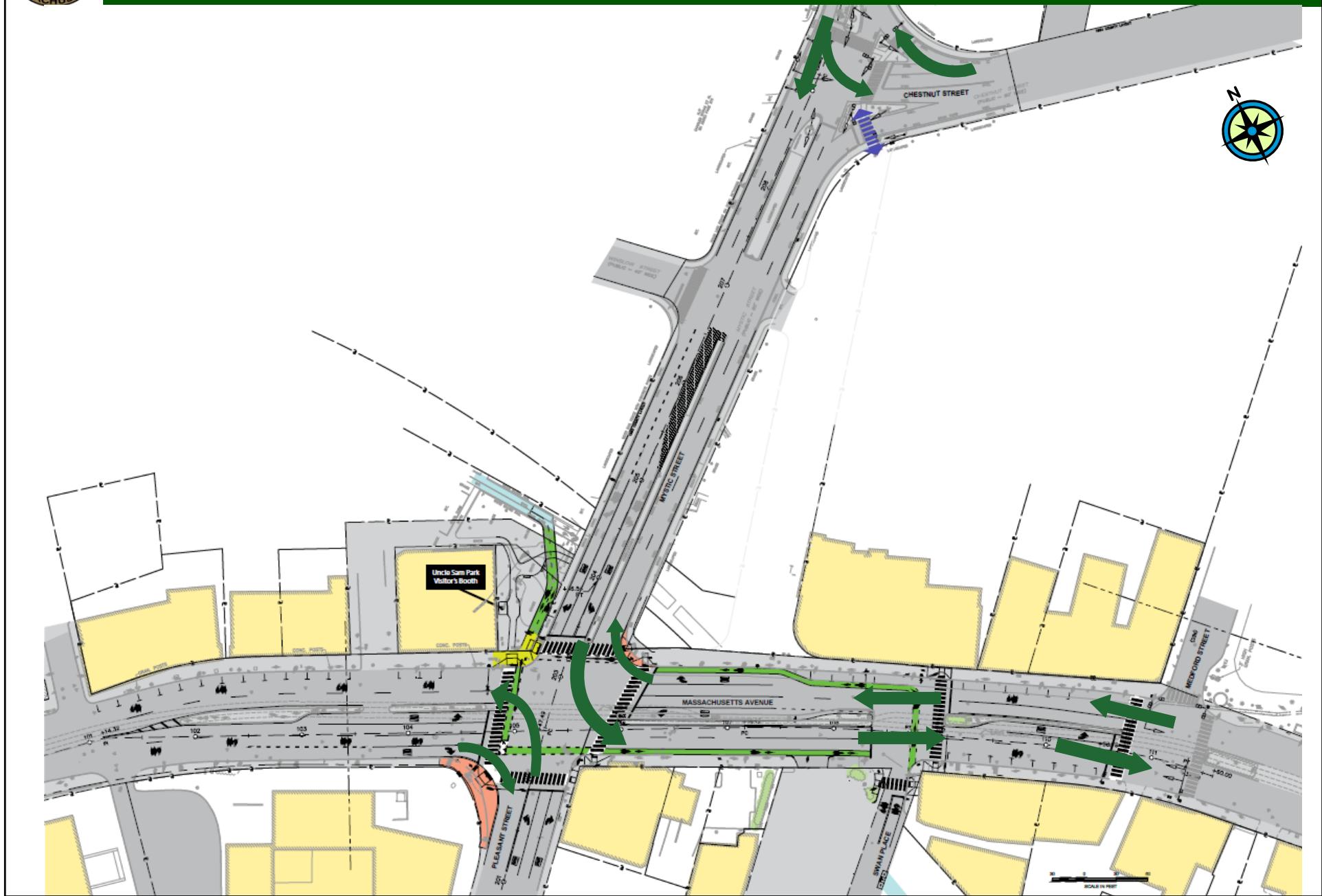


Proposed Traffic Signal Coordination



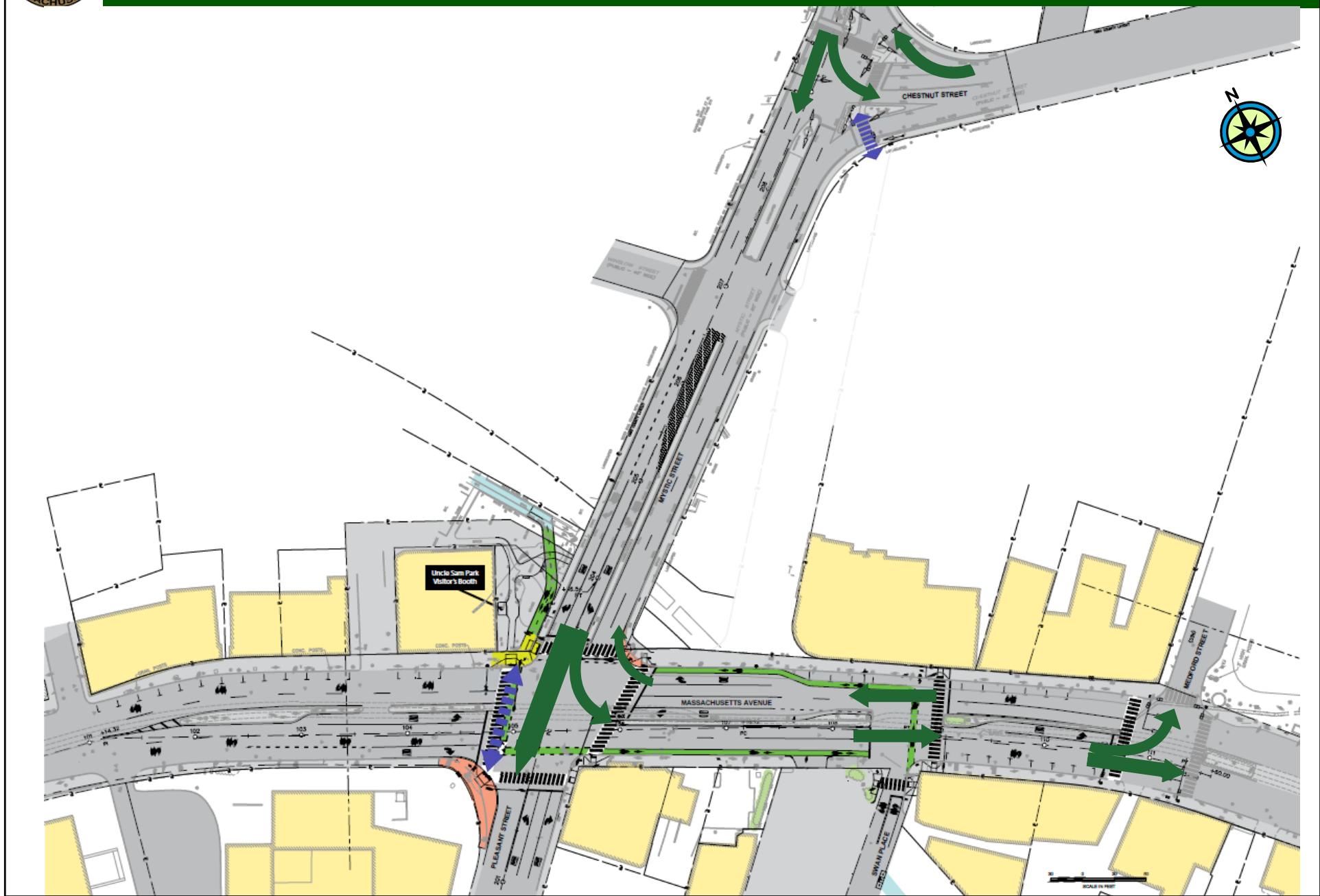


Proposed Traffic Signal Coordination



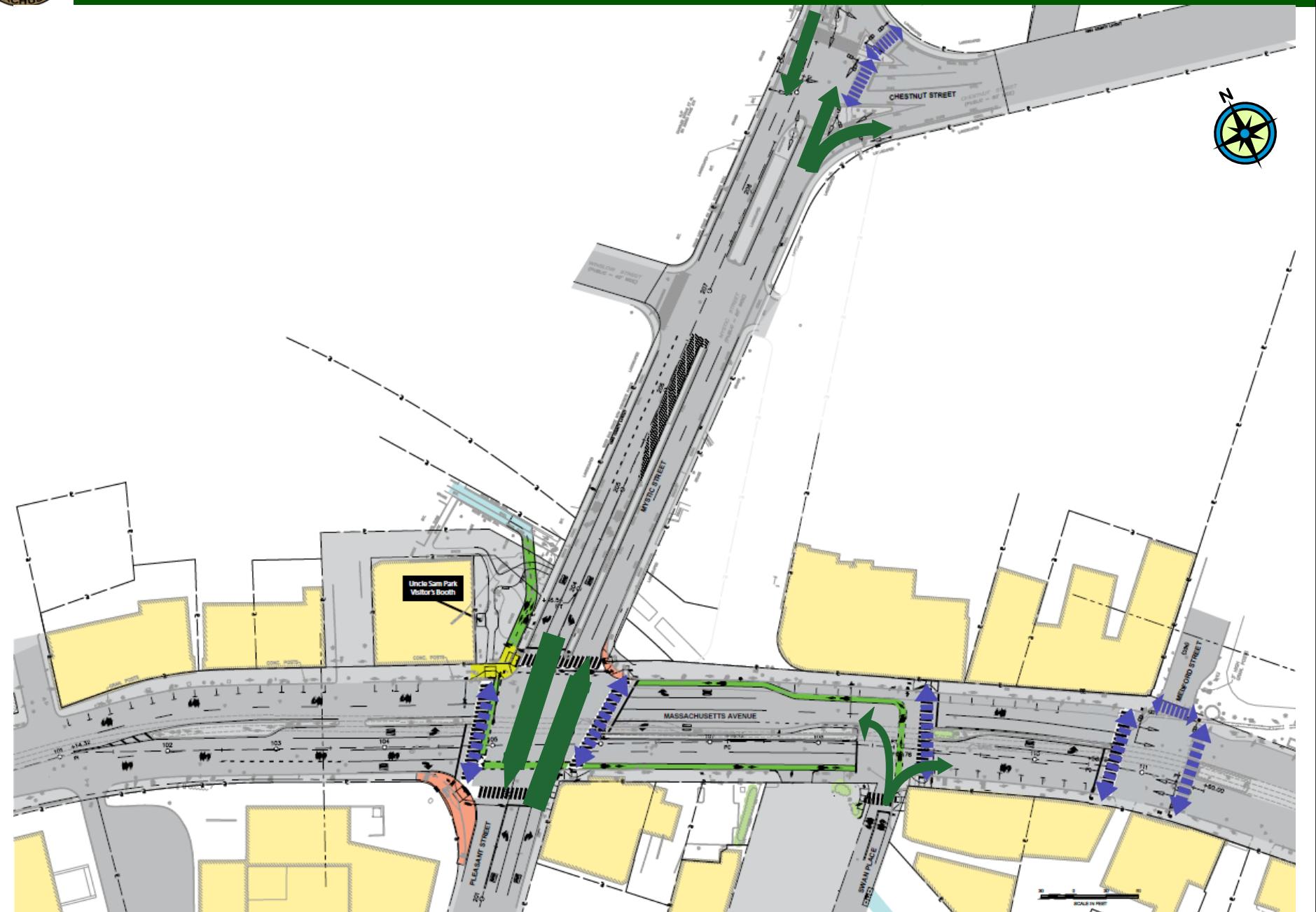


Proposed Traffic Signal Coordination



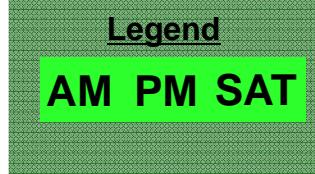


Proposed Traffic Signal Coordination

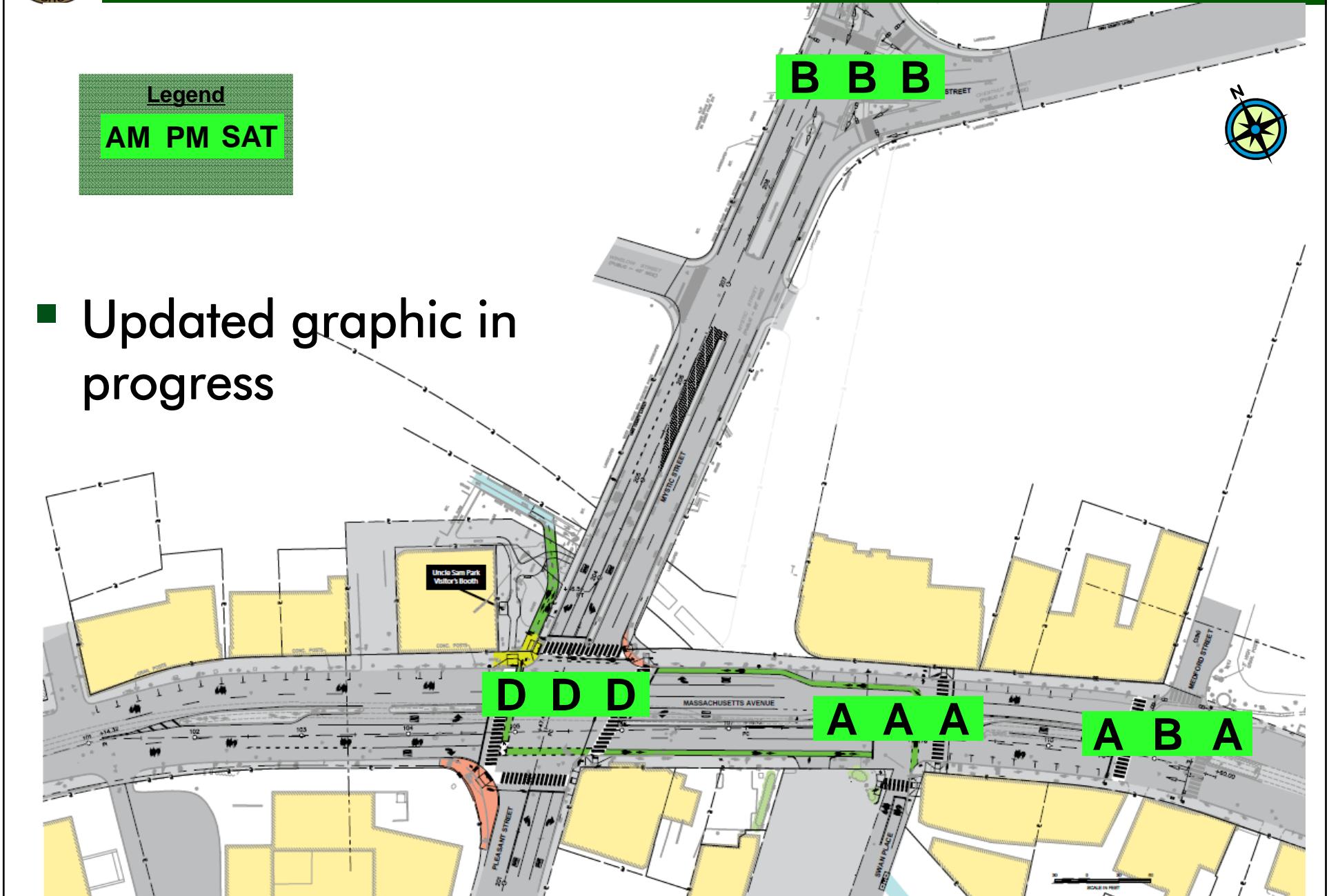




Proposed Traffic Operations w. Existing Volumes

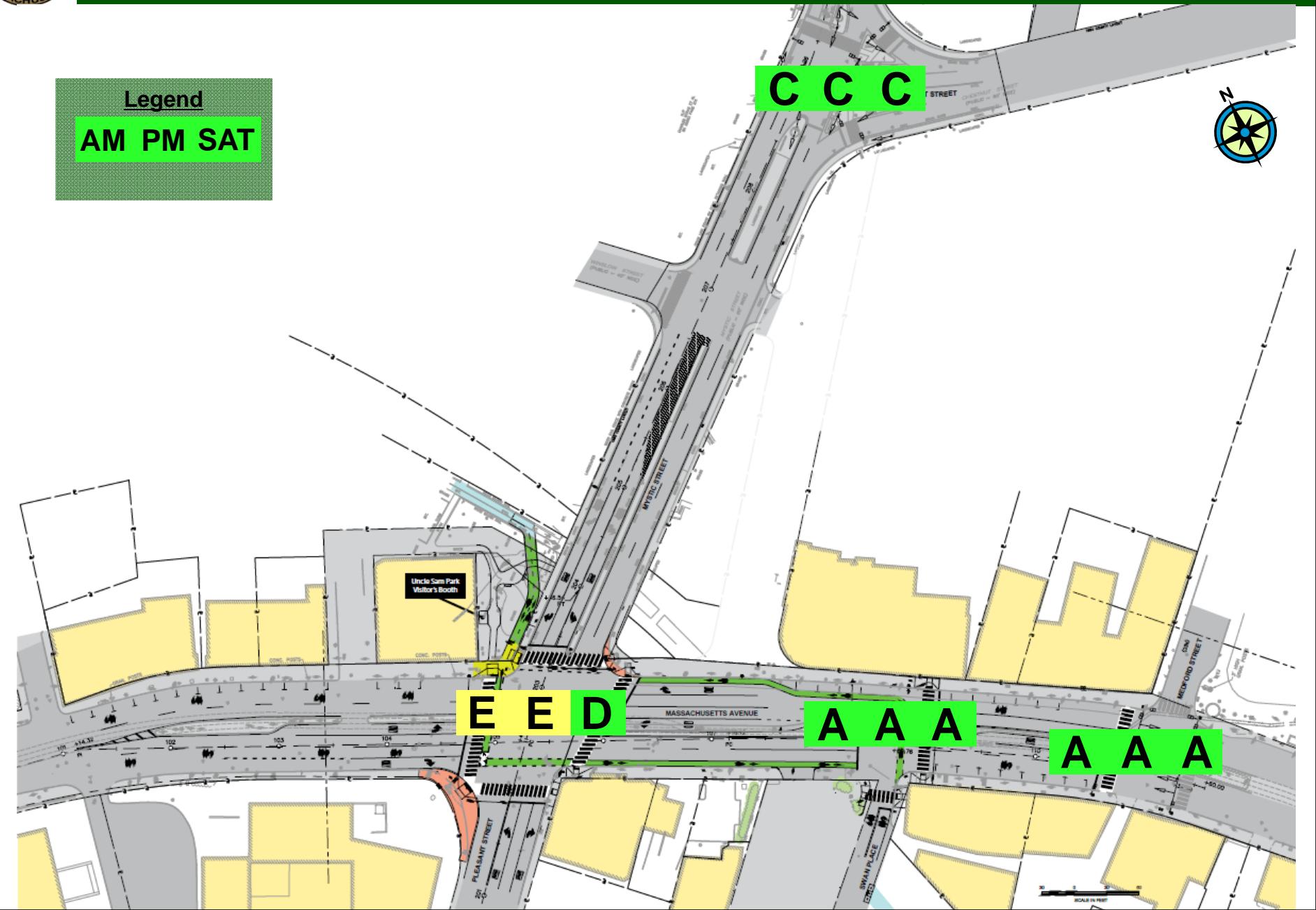


- Updated graphic in progress





Proposed Traffic Operations w. Future Volumes





Benefits - Proposed Conditions

■ Pedestrians

- Shorter crossing distances and times
- Fewer conflicts with cyclists on sidewalk on Massachusetts Avenue and Mystic Street
- New accessible ramps at all corners

■ Vehicles

- Less delay through coordinated signal timing
- Extended queuing space for Mystic Street left-turn

■ Bicycles

- Fewer conflicts with pedestrians on Massachusetts Avenue and Mystic Street sidewalks
- Clearer connection between ends of the Minuteman Bikeway
- Safer crossing at Swan Place



Questions/Comments



0 75 150 300 450 600 Feet